

## ***Research on the Problems and Countermeasures of online Teaching in Higher Continuing Education***

**Wei Tang<sup>1,2,a\*</sup>, Qingwei Song<sup>1,2,b</sup>, Xiaoyun Zhai<sup>1,2,c</sup>, Jianhong Zhang<sup>1,2,d</sup>**

<sup>1</sup>*School of Accounting and Finance, The Open University of Shaanxi, Xi'an, China*

<sup>2</sup>*School of Accounting and Finance, Shaanxi Business College, Xi'an, China*

<sup>a</sup> *tangwei070504@126.com*, <sup>b</sup> *songqingwei6512@163.com*, <sup>c</sup> *zhaxiaoyun\_xa@163.com*, <sup>d</sup> *zhangjianhong2874@126.com*

*\*corresponding author*

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**Abstract:** Higher continuing education is an important part of higher education in China, which is undergoing a transformation from focusing on the extension development to promoting the connotation construction. Online teaching plays an important role in realizing the popularization of higher continuing education and constructing a flexible and open lifelong education system in China. Based on this, this paper reviews the development process of online higher continuing education and makes operational, practical and forward-looking countermeasures for the development goal of "China's Education Modernization 2035".

Higher continuing education, as an important part of China's higher education, provides academic compensation, vocational skills training and cultural quality education for hundreds of millions of social members, alleviating the contradiction between the rapidly growing educational demand of social members and the relative insufficiency of traditional education supply. After long-term development and adjustment, higher continuing education has formed a multi-subject, multi-type, multi-form and multi-level school running system, which is transforming from a big country in human resources to a powerful one in human resources. With the globalization of Internet and computer, online education has become a popular way of learning for learners all over the world. As an important communication mode of higher continuing education, it has great advantages in resource utilization, learning behavior, learning form, teaching form and teaching management. However, the existing online teaching of higher continuing education is faced with the challenges of high dropout rate and low participation rate. Based on this, this paper sorts out the development process of higher continuing education, analyzes the practical problems existing in online teaching of higher continuing education, and proposes feasible and operable practical strategies.

## **1. Review on the Development of Online Teaching in Higher Continuing Education**

### **1.1. Review of the Development of Higher Continuing Education**

Under the concept of lifelong education, the concept of "higher education" can be summarized as general higher education, adult higher education, higher education self-study examination and online network education. Therefore, higher continuing education has both continuing education content and higher meaning. This paper makes a literature review and analysis on the factors influencing the development of higher education in foreign countries, which are mainly reflected in the following four aspects:

#### **1.1.1. Review of Theoretical Research on Adult Education**

In recent years, international studies on adult education have focused on adult learners' ability enhancement, identity transformation and quality of life improvement, internal and external factors affecting learning, improvement of relevant adult education theories, and exploration of effective teaching strategies. Overall, Europe and the United States and other developed countries continue to related subjects got rapid development in the field of education, the Swedish linkoping university in Sydney, Australia's university of science and technology university of Helsinki, Finland, the United States of north Carolina state university college of adult continuing education research level has high influence in the world, However, adult education research in non-English speaking countries has been marginalized internationally. International adult education is increasingly focused on China's economic development, cultural construction and education reform, but China's adult education scholars in international journals significantly fewer the number of post, with the domestic research results published in the number of obvious contrast, China's adult education discipline influence needs to be strengthened, the iconic, less research has wide influence.

The theoretical system of adult education in China is relatively weak. Compared with the development of international adult education, there is a lack of theoretical innovation, and the guidance for the practice of running higher continuing education is also slightly inadequate, and the guiding role for the improvement of the quality of running higher continuing education is not obvious at the present stage. Compared with many other subjects, the development of adult education is still relatively backward, and the trend of gradually being marginalized is obvious. In recent years, there has been a gradual increase in the research papers on higher diploma continuing education, which indicates that the research results are relatively abundant in the field of higher diploma continuing education in China, but the in-depth research and accurate prediction of higher continuing education system in China still need to be strengthened. There are no systematic theories and methods to support the sustainable development of higher education in terms of the transformation and development of higher education and solving the reform problems.

#### **1.1.2. A Review of Research on School-Running Orientation**

For higher education, the orientation of running a school is an integral, fundamental and developing concept integrating concepts, systems, policies and technologies. The orientation must first clarify its own situation, clarify its functions and functions in the social environment, meet the requirements of The Times, and undertake the mission of The Times. At the stage of elitism and popularization of higher education, scholars at home and abroad have studied the orientation of higher education for continuing education, which is mainly reflected in two aspects: one is to

advocate the concept of educational inclusion and equality, opening a door for the disadvantaged groups to receive higher education; Second, we need to accurately meet social needs, develop human resources, and enhance the ability of colleges and universities to serve social development. In the popularization stage of higher education, the United States established universities without walls and vigorously advocated lifelong continuing education. The concept of "lifelong learning University" has gradually formed a consensus in the field of higher education in the EU. Scholars believe that "universities should go beyond the scope of continuing education and adult education and realize more comprehensive lifelong learning by 2020". Because of the dual track system of higher education and general higher education in China, the research on the orientation of higher education in China is different from that in other countries. Most scholars believe that China's higher educational continuing education has been positioned as the education of academic compensation for a long time since its establishment. Some studies have the brand of academic compensation, which solidifies and reduces the orientation of education. In order to promote the comprehensive reform and transformation development of continuing education for higher academic qualifications, it is necessary to draw lessons from foreign research results, broaden and improve the orientation of running schools, and enrich the research perspective of the reform and development of continuing education for higher academic qualifications.

### **1.1.3. Review of Quality Assurance Research**

At present, developed countries such as Britain and the United States have constructed a unified quality guarantee system, that is, the one-track system of higher education is adopted to run schools, which generally ensures the quality of higher educational continuing education. (3) The research of relevant scholars shows that "wide entrance and strict exit" has become an important feature of the quality assurance system of higher educational continuing education in Europe and the United States, and the rapid development of information technology has brought new changes to the quality assurance of international higher educational continuing education. Due to the implementation of the dual system of higher education in China, the quality assurance of general higher education and the quality assurance of higher education have produced a series of research results. At present, China's higher education continuing education quality standards are faced with inconsistent standards, insufficient implementation and other problems, although some colleges and universities have passed iso9001:2000, ISO9001:2008 and other quality management system certification, due to the lack of punishment and withdrawal mechanism, the internal quality assurance system is generally not in place. Therefore, for the study of the internal quality assurance of higher education, we should not only pay attention to the design of the index system, but also consider how to "land" and effectively implement it. In addition, there are relatively few studies on the external quality assurance of higher continuing education, and the existing research results need more overall and systematic thinking, so as to facilitate the education authorities to make reference when formulating higher continuing education quality assurance policies.

### **1.1.4. Review of Development Model Research**

According to the research results at home and abroad, the modes of running higher education are very different. Although universities are the main body of running schools, but many developed countries adopt the monorail system mode of running schools, the same school and the same quality, but there are differences in learning methods or teaching arrangements. But our country is dual track system running a school mode at present, same school different quality. On the one hand,

domestic and foreign researches all attach importance to the influence of information technology on higher education. Online education, virtual university and Open University have become the hot spots of construction and research. On the other hand, it is also believed that sustainable development should become the core concern of the development of continuing education. The research mainly focuses on three aspects: continuing education promoting social and individual sustainable development, sustainable development theory promoting higher continuing education reform, and comprehensive evaluation of sustainable development level. At present, the research on the development of higher continuing education mode, is based on adult higher education, network education, higher education self-study exam and a certain degree to continue to study in the form of education reform, the lack of the overall study of higher education to continue education, are based on the framework of the whole higher education to continue education system reform of problem analysis and solution design. It is difficult to put the research results without an overall view into practical application, which is not conducive to the overall healthy development of higher educational continuing education. In addition, some research is based on our country's higher education situation put forward the corresponding policy recommendations of continuing education, the lack of a systematic review of the history and analysis for the forecast of the future development, "run, the deficit, in solving our country's higher education to continue education at present the problems in the development process, often can create new development problems at the same time.

## **1.2. Review on the Development of online Teaching Research**

Online education includes online teaching and online learning. Compared with traditional offline teaching, online teaching refers to teaching-related activities carried out through the Internet. Compared with the traditional offline mode, the Internet platform expands the time and space of teaching, brings advantages and disadvantages different from traditional teaching, and generates many new research problems. Numerous research findings, theories, models, indicators and standards are focused on high-quality online learning, online teaching and online course design. Berge and Mrozowski (2001), Tallent-Runnels et al. (2006), Zawacki-Richter et al. (2009), Martin et al. (2020) systematically combed the research issues related to inline learning in different periods in the past two or three decades. Among them, the research hotspots focus on student engagement and interactive participation, student characteristics, curriculum design and development, curriculum technology and platform, etc. (Martinet al., 2020). It is generally believed that effective online learning is the result of systematic design and development through careful teaching design and planning. Webster and Hackley (1997) analyzed the influence on seven outcomes of online learning from four aspects: technology, teachers, courses and students, which is regarded as a typical early study. On the basis of in-depth analysis and summary of theoretical development and practical activities of online teaching/learning, some Domestic scholars have also constructed a model of influencing factors (Wang Qiong, 2007; Zhang Jiahua, 2009).

In the past decade, with the further development and continuous innovation of Internet-related applications and business models, the booming development of market-oriented online education has brought great impetus to online teaching/learning, and the research on online education has shown a trend of in-depth and innovation-oriented development. Some researches believe that online teaching is not a simple "Internet + traditional teaching method", and it is necessary to systematically rebuild traditional teaching in terms of content, structure, process and methods, and reform the organization, service and teaching mode of existing education (Xie Youru et al., 2020).

Effective online learning requires building a learning community and ecosystem that includes not only teacher-directed activities, but also student engagement and social support. Both the practical development and theoretical research of online teaching have laid a solid technical foundation for the development of online teaching in this epidemic situation, and also laid a psychological foundation for the public to accept online teaching.

## **2. Problems Existing in online Teaching of Higher Continuing Education**

### **2.1. School Level**

First of all, it is difficult to ensure students' high efficiency, high efficiency, high quality of learning effect and students' good psychological state. The specific performance is: (1) how to correctly guide students to achieve high efficiency, high efficiency, high quality learning effect, and quickly master online learning methods and skills, which is the primary problem the school needs to solve; (2) In the context of epidemic prevention and control, how to accurately grasp the psychological state of students, especially those with poor psychological quality and ability, is an important issue for schools to solve. Secondly, it is difficult to ensure that all students have access to adequate digital equipment and Internet resources, especially those in remote mountainous areas without Internet. How to realize normal network learning and obtain sufficient digital resources is an urgent problem for schools to solve. Thirdly, students learn at home how to establish an effective home-school cooperation mechanism, which is also an urgent problem to be solved. Home-based learning not only requires the cooperation and support of the school and parents, but also needs to ensure that students remain positive, optimistic, and fully engaged in psychological state.

### **2.2. Teacher Level**

First, teachers lack professional competence in information and communication technology (ICT) and related technical training. Teachers' ICT ability directly determines the effectiveness of online teaching. It is necessary to train teachers in ICT and provide relevant systems, resources and policy support for incentive mechanisms. By making full use of the advantages and resources of online teaching, we can design reasonable teaching programs and carry out teaching activities in colleges and universities. Secondly, the lack of deep cooperation and communication between teachers. During the epidemic period, when schools are forced to reform their teaching mode, it is an important challenge for us to strengthen the in-depth cooperation between teachers and better realize the online teaching effect. Thirdly, the online teaching model will reconstruct the relationship between teachers and students. How to change the teacher-centered traditional classroom into student-centered online teaching mode is an important problem we are facing. Finally, how to innovate teaching design, instead of simply copying traditional classroom to online teaching, is also an urgent problem we are facing.

### **2.3. Students Level**

First, students need to change the traditional face-to-face learning mode. Students should change from the traditional learning mode of passive listening and taking notes to classroom interaction and deep participation in all aspects of teaching, so as to realize the transformation from passive learning to active learning. Secondly, how to adjust students' psychological state of online learning is a problem many students are facing. From the strict and orderly school learning state to the

relatively free learning situation at home, many students will not adapt. In addition, long-term online study at home will make students depressed and irritable psychological state. Thirdly, the learning conditions of disadvantaged students cannot be satisfied. The remote areas of our country are faced with the dilemma of wandering around to find the network. How to ensure the quality of home study of disadvantaged students is an urgent problem that the whole society needs to pay attention to.

### **3. Strategies to Improve the online Teaching Effect of Higher Continuing Education: Teaching Process Level**

#### **3.1. Standardizing the Enrollment System to Ensure the Quality of Students**

The quality of learners is an important basis for modern online education, which mainly includes learners' original knowledge base, ideological accomplishment, learning attitude, learning methods, etc. Compared with ordinary higher education, learners of online education have a poor foundation and low self-learning ability. However, the biggest advantage of modern online education is that it can meet the learning needs of learners with limited educational resources in China. In order to ensure the quality of personnel training, to take "wide into severe out" way of entrance, but at the same time of taking "wide into" still have to adhere to qualification as a minimum admission requirements, for the promotion of students, should have high school or technical secondary school degree or above, to rise only this student should have a college degree, so as to ensure the educatees to further study the basic conditions, Ensure the quality of students, and then ensure the quality of teaching.

#### **3.2. Scientific Formulation and Implementation of Teaching Plans**

The formulation of modern online education talents training program should pay attention to practicability and practicability, and the cultivation of applied talents should be the main goal. The curriculum design and content arrangement should highlight the advance and practicability. In the implementation of the talent program, we should combine the characteristics of learners and implement a course plan combining the credit system with the school year system to meet the needs of learners in - service learning. Curriculum implementation plan should start from the specific conditions of learners, step by step, in a planned way to inspire, guide and cultivate, arouse the enthusiasm of learners to learn independently.

#### **3.3. Do a Good Job in Face-To-Face Guidance Management**

Face-to-face instruction is an important link for self-taught online education. Do well face to grant tutorship, raise face to grant effect to must proceed from the following a few things: above all, employ outstanding teacher. The face-to-face teaching of online education is different from that of full-time ordinary classes. Compared with full-time general class guidance, face-to-face guidance of online education has short time, much content and great difficulty in teaching, and students place great hope on face-to-face guidance, so face-to-face guidance should be held by teachers with high professional level and rich teaching experience. Secondly, strengthen the attendance of students. During face-to-face on students' attendance is an important part of face to award coach management face to award coach attendance system construction should be strengthened, such as the students "participation" as part of the performance appraisal, to ensure attendance, imparts to kuang, absent



period of one semester total face to award coach period of a third person, it is not allowed to take an examination; To be late, early leave the timely name and criticism. Only strict attendance and good attendance rate can ensure the effect of face-to-face instruction and improve the quality of teaching.

### **3.4. Strengthen the Management of Self-Study**

The self-study part of online education is not general self-study. General self-study is a spontaneous learning activity carried out in accordance with personal interests and hobbies, while self-study in online education is a planned and organized self-study activity carried out by students under the guidance of teachers, which requires students to complete the specified learning tasks through self-study within a specified time. Guiding self-study is a regular educational activity of online education schools, and a set of systems should be established to help and urge students to study independently. Teachers should guide students to make their own learning plans and self-study schedules according to their own conditions, and guide students to complete self-study tasks on time.

### **3.5. Strengthen Practical Teaching Links**

The practical teaching link is a teaching link set up to cooperate with the theoretical teaching, train the students' ability to analyze and solve problems, strengthen the professional training and exercise the students' practical ability. Coursework is an important part of practical teaching. Online education should strengthen the management of coursework. Coursework scores can be counted in proportion to the overall course score. Teachers should assign a certain amount of homework each semester according to the nature and characteristics of the curriculum. The school shall establish a system of receiving, handing in, reviewing and registering students' homework. Teachers should seriously correct, timely assessment of the results, so that students get feedback in time. If students delay or fail to hand in their work, some pressure should be applied to prompt it or publish it online. Those who do not change their ways can be forbidden to take part in the final examination of the course according to relevant regulations. In addition to public criticism, students who repeatedly plagiarize homework will be disqualified from examinations. Do not seriously correct homework, not as good as the teacher with the student contact, but also according to the relevant system and provisions to be dealt with. In addition, it is necessary to establish a course work inspection system, which is conducted irregularly every semester. Random isometric sampling can be used for inspection. If an unqualified candidate is found in a spot check, his or her test score for that course will be invalid. Graduation thesis and graduation project are important parts of practical teaching. To ensure the quality of graduation thesis or graduation design, we should first strengthen guidance. Online education students mostly have rich experience and knowledge of production and management practice, so the graduation thesis or design topic should be combined with social practice as far as possible, especially the actual topic closely related to production practice and work practice. In the process of guiding students to complete the graduation thesis (design), we should pay special attention to the enthusiasm and creativity of students. Secondly, we should organize good defense. The grading standards shall be strictly implemented and the grades shall be assessed according to the grading standards and regulations. In the process of defense, through various forms of questioning, to understand the students to grasp the relevant knowledge of the firm degree and flexible use of knowledge. For the thesis (design) of poor quality or the basic content of the thesis does not understand the students may be fraudulent will not pass the graduation defense. Excellent papers can be published and published through relevant channels.

### **3.6. To Establish a Supervision System for Teaching Quality**

In order to monitor teaching quality comprehensively, the school should establish a comprehensive teaching quality supervision system. For example, a "supervision room" should be established by recruiting retired teachers with high professional level, strong sense of responsibility, rich teaching experience and mastery of online education characteristics and teaching rules. Supervision rooms should adhere to regular quality inspection, using lectures, surveys, discussions, visits and other forms, inspection and supervision of the order and quality of each teaching link. Teachers who are competent and effective in teaching should be rewarded; The unqualified teachers should be criticized and replaced in time when necessary; Teachers with poor teaching results and irresponsible teaching should not only be criticized, but also be disqualified from continuing to teach. In addition, the teaching information staff can be employed from the students of each class, the system of leading cadres and the staff of the teaching affairs Office can be established to attend lectures, and the measures for handling teaching accidents can be formulated, so as to obtain teaching information through multiple channels and comprehensively and master the first-hand materials of the teaching process.

## **4. Strategies to Improve the online Teaching Effect of Higher Continuing Education: Teachers**

### **4.1. Make Full Use of the Resources of Colleges and Universities to Establish a Team of Full-Time Teachers**

In terms of the construction of the teaching staff, the level and scale of the teaching staff must keep pace with the development level of the online education scale and school-running level. Online, there is a special education teaching faculty, it is not required to form a complete discipline of teachers, but should make full use of all the colleges and universities teacher resources, build a familiar with online education law, by various professional professional teachers, subject leaders at the cutting edge in the teaching of this subject, for learners to provide the most advanced knowledge of the field. Each pilot university should give full play to its disciplinary advantages, and form a teaching team composed of well-known experts and professors of corresponding disciplines to teach core courses, so as to play a leading and professional role in the education direction and teaching level of online education colleges. It is also necessary to establish a team of leading lecturers in the pilot colleges and universities, which are made up of teachers from the first line of teaching in the colleges and universities. The teachers in the pilot universities have rich teaching practice experience and are the main designers, writers and speakers of the courses of various majors. They can have an overall grasp of the courses and play an important role in guaranteeing the quality of education on the line.

### **4.2. Improving the Team of Part-Time online Classroom Guidance Teachers**

The network classroom tutor is mainly responsible for assisting the teacher to answer the questions raised by learners in the online classroom and exchange garden, guiding the learners to arrange the learning progress, assisting the lecturer to draw questions from the question bank and grade the paper, and feeding back the questions to the lecturer when necessary. Due to the characteristics of the number and learning of learners in network colleges, network classroom tutors are the teachers with the largest workload in network teaching. Network classroom guidance



teachers can be composed of young teachers from various pilot universities, doctoral or master students. These part-time teachers are responsible for online q&A, online tutoring, QQ group question answering, uploading all kinds of learning materials, guidance of papers, class management and other teaching counseling work. Through online tutoring and Q&A activities, part-time teachers have completed a large number of teaching tasks.

#### **4.3. Make Full Use of Teachers' Resources in the Learning Center**

As the grass-roots organization unit of China's online education institutions, learning center is an important guarantee for the realization of online education and teaching process. As the link between the college of education and learners, the learning center constitutes an important part of the learning support service system of modern online education in China. In the daily teaching and management process, due to the learning center teachers and learners contact and contact directly, can discuss problems with students face to face, answer the learners about admissions consulting, all sorts of problems encountered in the learning process, therefore, teacher learning center to deal with the problem of learners plays an irreplaceable role.

#### **4.4. Strengthening the Professional Ability Training of Full-Time and Part-Time Teachers**

As network education is a new way of education, and learners are mainly on-the-job learners with flexible learning methods, it is an important measure to improve teaching quality to strengthen the cultivation of teachers' professional ability and adopt flexible and diversified teaching methods. From the perspective of teachers, we should first complete the ideological transformation from traditional education to online open education, that is, from teacher-centered to learner-centered, from closed education to open education; Secondly, to make full use of technological means, modern online education also requires teachers to have certain computer knowledge, make full use of network technology, carefully prepare excellent audio-visual media and network media, to achieve benign interaction between teachers and students; Finally, continuously tracking the development trend of modern online education is the inherent requirement to improve the quality of modern online education teachers.

### **5. Coping Strategies to Improve the online Teaching Effect of Higher Continuing Education: Discipline Construction**

#### **5.1. Relying on the Advantages of Disciplines, Build Online Education Brand Specialty**

The level of discipline construction determines the actual running strength of a school, and also determines the long-term development prospects of a school. It is not only the basic requirement for the development of higher education itself, but also the strategic choice for survival and development to adapt to the economic and social development. For the pilot colleges and universities, it is necessary to give full consideration to the development of their disciplines, combine their dominant disciplines and specialties, and comprehensively consider the characteristics of disciplines and teachers to set up dominant disciplines and majors, form characteristic disciplines and majors, build online education brands, and enhance the core competitiveness of the schools.

## **5.2. Build High-Quality Courses to Improve Learners' Interest in Learning**

At the beginning of this century, China's higher education has made a historic leap and entered the internationally recognized stage of popular education. In the context of the continuous growth of the scale of higher education and the continuous improvement of the quality of education, it is a serious challenge for schools to proceed from their own actual situation. For the pilot universities, to further improve the quality of teaching, the most important thing is to establish a number of national, provincial, municipal and university-level excellent courses. We should firmly grasp the center of improving the quality of teaching and take effective measures to expand the popularity of the school.

## **6. Countermeasures to Improve the online Teaching Effect of Higher Continuing Education: Facility Construction**

### **6.1. Building Wide-Area Networks With Broadband and High Speed**

Modern distance education needs a lot of data transmission and processing, which must be realized by high-speed network platform. In the current Internet overall speed is not too high, how to make the information transmission to achieve satisfactory results, is also an important problem. This problem includes two aspects: one is to improve the actual transmission efficiency of network; The second is to reduce the amount of transmission, and try to use the current low rate of transmission of those most important information.

### **6.2. Create Convenient online Learning Conditions**

All kinds of multimedia classrooms and multimedia reading rooms are built on the network for students to study and use. Students' access and information download rights on the Internet should be guaranteed so that students can choose learning content according to their own basis and characteristics.

### **6.3. Strengthening Teaching Materials and Information Network Facilities**

The construction of an online library and information network system that can quickly collect all kinds of literature and information can timely understand the frontiers of relevant scientific research and provide support for distance learning learners. Increase the investment of funds, the construction and maintenance of teaching network system, comprehensive educational management system and other digital teaching environment, for the majority of teachers engaged in online teaching and learners online learning to provide convenient conditions. Strengthen the construction of teaching information, build a digital library system, speed up the pace of high-quality teaching resources sharing, improve the teaching effect, and guarantee the teaching quality of modern distance education. Quality is the lifeline of distance education development. With the expansion of distance education scale, more attention should be paid to improving the quality of modern distance education. It is particularly important to standardize the teaching process and establish the full-time and part-time teachers of distance education to guarantee the teaching quality. Only by adopting good quality guarantee measures can we really improve the quality of education, so as to enhance the running level of modern distance education and promote the healthy development of modern distance education.

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